

Atty. Dkt. No. 200309526-1

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A print cartridge, comprising:

a port;

a first valve and a second valve in fluid communication with the port, ~~the first and second valves being configured to selectively operate in open and closed positions;~~

a first chamber, the first valve between the first chamber and the port in fluid communication with the first valve;

a second chamber, the second valve between the second chamber and the port in fluid communication with the second valve; and

a printhead disposed outside the first and second chambers, the printhead being in fluid communication with the first and second chambers to permit ink within the first chamber to pass across the printhead as fluid is withdrawn from the second chamber.

2. (Currently Amended) ~~The print cartridge according to claim 1, A print cartridge, comprising:~~

a port;

a first valve and a second valve in fluid communication with the port, the first and second valves being configured to selectively operate in open and closed positions;

a first chamber in fluid communication with the first valve;

a second chamber in fluid communication with the second valve;

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a printhead disposed outside the first and second chambers, the printhead being in fluid communication with the first and second chambers to permit ink within the first chamber to pass across the printhead as fluid is withdrawn from the second chamber; and

further comprising a heating element disposed within the first chamber to heat the ink in the first chamber.

3. (Original) The print cartridge according to claim 1, wherein the print cartridge is configured to pull ink disposed in the first chamber across the printhead and into the second chamber by opening the second valve and removing ink, air, or both from within the second chamber through the second valve while the first valve is in the closed position.

4. (Original) The print cartridge according to claim 1, further comprising a first temperature sensor disposed in the first chamber and a second temperature sensor disposed at the printhead.

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5. (Currently Amended) ~~The print cartridge according to claim 1, further comprising:~~

A print cartridge, comprising:

a port;

a first valve and a second valve in fluid communication with the port, the first and second valves being configured to selectively operate in open and closed positions;

a first chamber in fluid communication with the first valve;

a second chamber in fluid communication with the second valve;

a printhead disposed outside the first and second chambers, the printhead being in fluid communication with the first and second chambers to permit ink within the first chamber to pass across the printhead as fluid is withdrawn from the second chamber;

a bag disposed in the first chamber; and

a bias member disposed in the first chamber, the bias member coupled to the bag to impart a compressing bias on the bag.

6. (Original) The print cartridge according to claim 1, further comprising a manifold, the manifold being disposed between the printhead and the first chamber to permit ink to be delivered to the printhead from the first chamber and at least one other source via the manifold.

7. (Original) The print cartridge according to claim 1, further comprising a filter disposed between the first chamber and the printhead.

8-13. (Cancelled)

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14. (Currently Amended) A system comprising:

- a print cartridge having a port
- the print cartridge including first and second valves in fluid communication with the port;
- an ink supply external to the print cartridge;
- a pump external to the print cartridge and in fluid communication with the port and the ink supply;
- a controller configured to maintain the second valve closed and to open the first valve to permit ink delivery from the ink supply to the print cartridge via the first valve during a filling operation; and
- the controller further configured to maintain the first valve closed and to open the second valve to permit the pump to pull air from the print cartridge via the second valve during a cooling operation.

15. (Currently Amended) The system according to claim 14, wherein the print cartridge further comprises:

- a first chamber in fluid communication with the first valve;
- a second chamber in fluid communication with the second valve; and
- a printhead disposed outside of the first and second chambers.

16. (Currently Amended) The system according to claim 14, wherein the print cartridge further comprises:

- a first chamber in fluid communication with the first valve;
- a second chamber in fluid communication with the second valve;
- a printhead disposed outside of the first and second chambers; and
- a heating element disposed within the first chamber.

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17. (Currently Amended) The system according to claim 14, further comprising:

a motor; and

a clutch mechanism coupled to the motor and to the pump to transfer rotational power from the motor to the pump based, the clutch being controlled by the controller.

18. (Currently Amended) The system according to claim 14, further comprising:

a motor;

a print media handling mechanism; and

a clutch mechanism coupled to the motor, the print media handling mechanism, and to the pump to selectively transfer rotational power from the motor to either the pump or the print media handling mechanism based on control signals received from the controller.

19. (Currently Amended) A system for controlling the temperature of a printhead mounted on a print cartridge including first and second chambers in fluid communication with a port via first and second valves, respectively, the system comprising:

means for pumping air from the second chamber via the second valve to draw ink disposed within the first chamber across the printhead and into the second chamber while maintaining the first valve closed; and

means for pumping ink into the first chamber via the first valve while maintaining the second valve closed.

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20-29. (Cancelled)

30. (Currently Amended) A print cartridge comprising:
a chamber having ink disposed therein;
a printhead in fluid communication with the chamber for ejecting ink;
a first temperature sensor disposed within the chamber for determining a temperature of the ink disposed therein; and
a second temperature sensor at the printhead for determining a temperature of the printhead.

31. (Original) The print cartridge of claim 30, wherein the print cartridge further comprises a heating element disposed within the chamber to heat the ink in the chamber.

32. (Currently Amended) The print cartridge of claim 30, further comprising:
a port; and
a first valve disposed between the chamber and the port to regulate fluid flow between the first chamber and the port.

33. (Currently Amended) The print cartridge of claim 32, further comprising:
a snorkel; and
a second valve disposed between the snorkel and the port to regulate fluid flow between the snorkel and the port.

34. (Original) The print cartridge of claim 30, further comprising a bag disposed in the chamber.